

AMENDMENT TO THE CLAIMS:

1. (Currently Amended) Injection molding machine for processing plastics materials and plasticisable materials, comprising: an injection molding unit and a mould closing unit, which are operated at least partially by an electric driving unit including at least one linear motor, which has a rotor with magnets, disposed along a first cylindrical surface, and a stator with stator windings disposed along a second cylindrical surface, the first and second cylindrical surfaces being concentrically disposed, and the stator windings being substantially symmetrical relative to an axis of movement of the linear motor, wherein a plurality of identically acting first surfaces are stacked with a corresponding number of identically acting second surfaces, at least one of the first and second surfaces being operable jointly in operative connection, wherein identically acting first or second surfaces are an outside and inside of a first cylinder, and wherein identically acting first and second surfaces are so disposed on concentric second and third cylinders that an internal surface of the second cylinder cooperates with the outside of the first cylinder, and an external surface of the third cylinder cooperates with the inside of the first cylinder.

2. (Previously Presented) Injection molding machine according to claim 1, wherein the magnets are separately excited coils with an iron core.

3. (Previously Presented) Injection molding machine according to claim 1, wherein the electric driving unit is a regulated servo driving unit.

4. (Canceled)

5. (Previously Presented) Injection molding machine according to claim 1, wherein the linear motor is cylindrical and is overlapped on the outside by a cylinder, which guides faces of the rotor and the stator, which are moved towards one another, along a separate bearing face by means of at least one mounting.

6. (Previously Presented) Injection molding machine according to claim 1, wherein the stator windings are divided along the axis of movement into a plurality of separate electrical switching zones.

7. (Previously Presented) Injection molding machine according to claim 1, further comprising cooling ducts, which lie behind or adjacent the stator windings when viewed from the

magnets, are associated with said stator windings, wherein a temperature of the cooling ducts is controlled by means of a cooling medium.

8. (Previously Presented) Injection molding machine according to claim 1, wherein the electric driving unit is a closing mechanism for moving a movable mould carrier towards a stationary mould carrier and away from said stationary carrier and for applying a closing force.

9. (Previously Presented) Injection molding machine according to claim 4, wherein the linear motor is employed as a closing mechanism, and wherein there is a space in an interior of the third cylinder to accommodate an ejector unit.

10. (Withdrawn) Injection molding machine according to claim 1, wherein the linear motor is employed as an injection means, a covering of the cylindrical surfaces, increasing during displacement of a feeding means to an injection mould.

11. (Previously Presented) Injection molding machine according to claim 1, wherein the linear motor is employed as a closing mechanism, a covering of the cylindrical surfaces increasing as parts of an injection mould approach one another.

12. (Previously Presented) Injection molding machine according to claim 1, wherein the electric driving unit is an arrangement for applying a closing force.

13. (Withdrawn) Injection molding machine according to claim 1, wherein the electric driving unit is a driving unit for fitting a nozzle onto an injection mould.

14. (Withdrawn) Injection molding machine according to claim 1, wherein the electric driving unit is an injection means for axially moving a feeding means.

15. (Withdrawn) Injection molding machine according to claim 1, wherein the electric driving unit is an ejector unit.

16. (Withdrawn) Injection molding machine according to claim 1, wherein the electric driving unit is a core pulling unit on an injection mould.

17. (Withdrawn) Injection molding machine according to claim 1, wherein the electric driving unit is a driving unit for a closure nozzle.